

# Proposed Research Plan

# Questions

What levels of PBDEs are released from each focus area?

How much removal occurs during pretreatment and treatment?

Are technologies available that can cost-effectively remove PBDEs, or improve removal efficiency?

# Auto Recycling

- 3 Facilities
- Waste
  - Up to 20 samples from 12,000 tons/quarterly
- Waste water treatment systems
  - Influent/effluent
  - Sludge
- Atmospheric deposition
  - Ambient air- upwind/downwind
  - Surface soils- upwind/downwind
- Cost: \$47,000 - \$130,000

# Electronics Recycling

No sampling proposed

Defer to e-waste BMP development  
processes currently underway

# Landfills

- Leachate
  - 3 MSW Landfills
    - 1 using auto fluff as daily cover
    - 2 not using auto fluff as daily cover
  - 3 limited purpose landfills
- Atmospheric deposition
  - 3 landfills
    - 1 background- upwind
    - 2 downwind samples
- Cost: \$24,000-\$80,000

# Incineration

- No new sampling proposed
- The Spokane incinerator is controlled for dioxins making the release of PBDEs from the incinerator itself unlikely

# Waste Water Treatment

- 3 Facilities
  - 1 that receives leachate
  - 2 that do not receive leachate
- Influent
- Effluent
- Biosolids
- Cost: \$20,000 - \$60,000

# Recommendation

- Apply the BAT approach
- Review results from studies now underway
- Revise sampling plan as appropriate
- Seek funding to conduct needed sampling
- Collect data sufficient to evaluate BMPs for each priority practice
- Assess BMP alternatives
- Reconvene this committee